

DERWENT-ACC-NO: 2002-514521

DERWENT-WEEK: 200255

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TITLE: Roll=over prevention apparatus for vehicle,  
has ECU to judge danger of lateral turning of vehicle as  
well as rightward and leftward vehicle inclination,  
based on vehicle roll angle

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
JP 2002166826 A	June 11, 2002	N/A
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
JP2002166826A	N/A	2000JP-0363265
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INT-CL (IPC): B60K028/14, B60R021/00 , B60T008/24 ,  
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ABSTRACTED-PUB-NO: JP2002166826A

BASIC-ABSTRACT:

NOVELTY - An ECU (24) judges the danger of the lateral turning of a vehicle, as well as the rightward or leftward vehicle inclination, based on the vehicle roll angle.

DETAILED DESCRIPTION - The ECU includes a roll angle sensor (24a) for detecting the vehicle roll angle, and a roll angular velocity sensor (24b) for detecting the vehicle roll angular velocity. An urgency decision unit (24c) judges a vehicle-related urgency based on the detected roll angular velocity. A risk decision unit (24d) judges the danger of the vehicle lateral turning, based on the roll angle. If the absolute value of the roll angle is greater than a prescribed value, the indicator control (24e) and the alarm unit control (24f) in the ECU activates a roll indicator (18) and an alarm unit (22). An inclination decision unit (24h) judges the vehicle inclination, based on the roll angle. The brake control unit (24i) in the ECU applies

the vehicle  
brakes, based on the judged inclination.

USE - For preventing lateral turning of vehicle, while in transit.

ADVANTAGE - Reduces danger of vehicle lateral turning.  
Ensures appropriate  
vehicle braking control. Ensures stable vehicle deceleration.  
Improves  
vehicle drive safety, by preventing wheel lock and vehicle side slip.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the control structure of a roll-over prevention apparatus. (Drawing includes non-English language text).

Roll indicator 18

Alarm unit 22

ECU 24

Roll angle sensor 24a

Roll angular velocity sensor 24b

Urgency decision unit 24c

Risk decision unit 24d

Indicator control 24e

Alarm unit control 24f

Inclination decision unit 24h

Brake control unit 24i

CHOSEN-DRAWING: Dwg.2/7

TITLE-TERMS: ROLL=OVER PREVENT APPARATUS  
VEHICLE ECU JUDGEMENT DANGER LATERAL  
TURN VEHICLE WELL VEHICLE INCLINATION  
BASED VEHICLE ROLL ANGLE

DERWENT-CLASS: Q13 Q17 Q18

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2002-407394